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SEQUENCE LISTING

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APR 24 2002

TECH CENTER 1600/2900

<110> Quirk, S.

<120> Modular peptide-based reagent

<130> 1443.026US1

<140> US 10/027,038

<141> 2001-12-20

<160> 34

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 36

<212> PRT

<213> Meleagris gallopavo

<400> 1

Gly	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Asp	Ala	Pro	Val	Glu	Asp
1				5				10						15	
Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Tyr	Leu	Asn	Val	Val	Thr
			20				25						30		
Arg	His	Arg	Tyr												
			35												

<210> 2

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 2

Gly	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Asp	Ala	Pro	Val	Glu	Asp
1				5				10						15	
Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Trp	Leu	Asn	Val	Val	Thr
			20				25						30		
Arg	His	Arg	Tyr												
			35												

<210> 3

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 3

Met	Cys	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Asp	Ala	Pro	Val	Glu
1				5					10					15	
Asp	Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Tyr	Leu	Asn	Val	Val
			20				25						30		
Thr	Arg	His	Arg	Tyr											
			35												

<210> 4

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 4

Met	Cys	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Asp	Ala	Pro	Val	Glu
1				5					10					15	
Asp	Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Tyr	Leu	Asn	Cys	Val
			20					25					30		
Thr	Arg	His	Arg	Tyr											
			35												

<210> 5

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 5

Gly	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Pro	Ala	Pro	Val	Glu	Asp
1				5				10						15	
Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Tyr	Leu	Asn	Val	Val	Thr
			20				25						30		
Arg	His	Arg	Tyr												
			35												

<210> 6

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 6

Gly	Pro	Ser	Gln	Pro	Thr	Tyr	Pro	Gly	Asp	Asp	Gly	Pro	Val	Glu	Asp
1				5				10						15	
Leu	Ile	Arg	Phe	Tyr	Asp	Asn	Leu	Gln	Gln	Tyr	Leu	Asn	Val	Val	Thr
			20				25						30		
Arg	His	Arg	Tyr												
			35												

<210> 7

<211> 4

<212> PRT

<213> Meleagris gallopavo

<400> 7

Arg	His	Arg	Tyr
1			

<210> 8

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 8
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Ala Ala

<210> 9
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A peptide backbone.

<400> 9.
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Arg His Arg Tyr Cys
 35

<210> 10
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A peptide backbone.

<400> 10
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Cys

<210> 11
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A peptide backbone.

<400> 11
 Met Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Gly Pro Val Glu
 1 5 10 15
 Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Trp Leu Asn Cys Val
 20 25 30
 Thr Ala Ala Cys
 35

<210> 12
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>

<223> A nucleotide sequence encoding SEQ ID NO:11.

<400> 12
atgtgcccga gccagccgac ctatccgggc gatcccgggc cggtggaaga tctgatccgc 60
ttttatgata acctgcagca gtggctgaac tgcgtgaccg ccgcctgcta g 111

<210> 13
<211> 132
<212> DNA
<213> Artificial Sequence

<220>
<223> A nucleotide sequence encoding SEQ ID NO:11.

<400> 13
acacaccata tgtgcccgag ccagccgacc tatccgggcg atcccgggcc ggtggaagat 60
ctgatccgct tttatgataa cctgcagcag tggtggaact gcgtgaccgc cgctgctag 120
ggatccacac ac 132

<210> 14
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> A peptide backbone.

<400> 14
Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Gly Pro Val Glu Asp
1 5 10 15
Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Trp Leu Asn Cys Val Thr
20 25 30
Ala Ala Cys
35

<210> 15
<211> 6
<212> PRT
<213> Bos taurus

<400> 15
Pro Tyr Arg Ile Arg Phe
1 5

<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> A portion of the recognition sequence from Bovine
Pancreatic Trypsin Inhibitor (PYRIRF, SEQ ID
NO:15) converted into this DNA sequence using E.
coli codon usage.

<400> 16
ccgtatcgca tccgcttt 18

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
 <223> SEQ ID NO:16 with flanking Sma I sites.

 <400> 17
 cccgggccgt atcgcatccg ctttcccggg 30

 <210> 18
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> A peptide interactive domain.

 <400> 18
 Tyr Lys Leu Lys Tyr
 1 5

 <210> 19
 <211> 15
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> SEQ ID NO:18 converted into this DNA sequence.

 <400> 19
 tataaactga agtat 15

 <210> 20
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> SEQ ID NO:19 with Sma I flanking sequences.

 <400> 20
 cccgggtata aactgaagta tcccggg 27

 <210> 21
 <211> 41
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> A peptide-based reagent that combines the SEQ ID
 NO:15 interactive domain with the SEQ ID NO:11
 peptide backbone.

 <400> 21
 Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Pro Tyr Arg Ile Arg
 1 5 10 15
 Phe Gly Pro Val Glu Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln
 20 25 30
 Trp Leu Asn Cys Val Thr Ala Ala Cys
 35 40

 <210> 22
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>

<223> A peptide-based reagent that combines the SEQ ID NO:18 interactive domain with the SEQ ID NO:11 peptide backbone.

<400> 22

Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Tyr Lys Leu Lys Tyr
1 5 10 15
Gly Pro Val Glu Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Trp
20 25 30
Leu Asn Cys Val Thr Ala Ala Cys
35 40

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 23

acacaccata tgtgcccgag

20

<210> 24

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 24

tcggctggct cgggcacata tgggtgtg

28

<210> 25

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 25

ccagccgacc tatccgggcg atcccgg

27

<210> 26

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 26

ccaccggccc gggatcgccc ggatagg

27

<210> 27

<211> 28

<212> DNA

<213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 27
 gccggtggaa gatctgatcc gcttttat 28

 <210> 28
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 28
 aggttatcat aaaagcggat cagatctt 28

 <210> 29
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 29
 gataacctgc agcagtggtc gaactgcg 28

 <210> 30
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 30
 cggcggtcac gcagttcagc cactgctgc 29

 <210> 31
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 31
 tgaccgccgc ctgctaggga tccacacac 29

 <210> 32
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

 <400> 32
 gtgtgtggat ccctagcagg 20

 <210> 33

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 33
acacaccata tgtgcccg 18

<210> 34
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 34
gtgtgtggat ccctagca 18